

Cooperative Agricultural Pest Survey



A Program to Detect Plant Pests And Diseases of Regulatory Concern

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Corn Rust- Picture taken in Suwannee County, FL



Visual Survey for Corn Downy Mildew in Hamilton County, FL



Bucket Trap hanging in tree row between corn fields



Corn Smut- Picture taken in Hamilton County, FL



Corn Earworm –adult moth. (Picture copyright Bruce Marlin 2002)

Corn Commodity Survey Introduction



- □2018 Survey
 - Commercial & Organic Fields, Community Gardens
 - Sweet Corn & Corn for Grain or Feed
 - □ North Florida, Panhandle Region West of Suwannee River, Central and South Florida
- Types of Surveys
 - Trapping for Insect Pests
 - Visual Surveys for Corn Pests and Pathogens

Corn Commodity Survey Target Pests (trapping surveys)





Old World Bollworm Helicoverpa armigera Bucket Trap w/Lure





Spotted Stem Borer Chilo partellus wing trap w / lure





False Codling Moth Thaumatotibia leucotreta Delta Trap w/Lure



Target Pests (visual surveys)



Java Downy Mildew *Peronosclerospora maydis*Visual Survey



Philippine Downy Mildew *Peronosclerospora philippinensis*Visual Survey



Target Pests (visual surveys)



Brown Stripe Downy Mildew Sclerophthora rayssiae var. zeae Visual Survey



Late Wilt of Corn *Harpophora maydis*Visual Survey



Target Pests (visual surveys)



Tar Spot Complex:

Phyllachora maydis & Monographella maydis





Target Pests (visual surveys)



Cucurbit Beetle

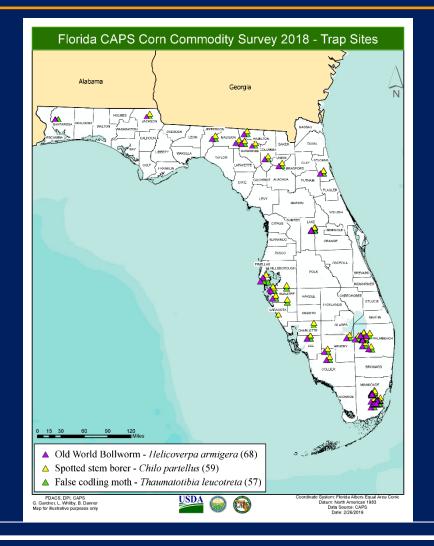
Diabrotica speciosa

Visual Survey



Corn Commodity Survey 2018 Results





Corn Commodity Survey 2018 Results





Corn Commodity Survey 2018 Results



The Corn Commodity Survey for 2018 was executed in 21 Florida counties at 64 designated high risk sites.

| | Counties | Traps | Checks | Specimens |
|--------------------------|----------|-------|--------|-----------|
| Helicoverpa armigera | 17 | 68 | 493 | 2290 |
| Chilo partellus | 18 | 59 | 319 | 317 |
| Thaumatotibia leucotreta | 17 | 57 | 333 | 706 |
| Visual Surveys | 18 | *48 | 135 | 18 |

^{*}Visual survey sites

No target pests or pathogens were detected

Corn Commodity Survey 2019 Survey Plan



- □ Reevaluate 2018 high risk fields.
- Pursue and evaluate additional locations for survey.
- Add an additional visual survey for Sipha maydis (hedgehog grain aphid).





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What are your thoughts?

What other pests use these pathways?

Are there resources not being utilized?

How do we improve?



